THE TECH

VOL. XXVIII. No. 75 BOSTON, MASS., WEDNESDAY, APRIL 28, 1909 PRICE THREE CENTS

SCIENCE IS KEY-NOTE OF WORLD

Dr. R. C. Maclaurin Makes This Statement in Speech

DEAN BURTON SPEAKS

Event is Annual Dinner of the Harvard and Tech British Empire Clubs

The obligations and opportunities of English students in America was the theme of the address delivered at the annual joint dinner of the Harvard Canadian Club and the Technology British Empire Association at the Hotel Nottingham last Saturday evening.

President-Elect Richard C. Maclaurin of the Institute was the principal speaker. He welcomed this manifestation of good fellowship between Harvard and Technology students, and expressed peculiar pleasure at being called upon to address a gathering of Englishmen.

He dwealt at length on Great Britain's relations to her colonies, contrasting the old idea that the dependencies are a burden with the new one that they are the principal mainstay of the Empire.

He said it was the duty of every young Englishman, fortunate enough to receive an American schooling, to educate the minds of the home people to the fact stubbornness and perseverence are not the only qualities necessary for success. Scientific method is now being applied in the moral as well as the physical world and in order to succeed today a man needs tact as well as persistence.

Dean Burton told in his interesting way of what the Britishers are doing at Technology, especially in athletics.

Other speakers were Senator Ferguson of Prince Edward's Island, Pres. MacLeod of the Intercolonial Club of Boston and Dr. Harris, Prof. Munro and Dr. Rand of Harvard. They urged all English students to take back home with them the scientific spirit and ideals of America.

PENN. RELAY SUCCESS

Prospects for Intercollegiates Brightened by Good Work

Victory over the fast Wesleyan team at the Pennsylvania Meet brings much credit to the Institute team. The running of its members, Capt. C. W. Gram 1909, A. L. Moses 1910, W. C. Salisbury 1911, and P. D. White 1911, was excellent and the time, 3 minutes, 31 2-5 seconds, only outdone by the Chicago team.

After a fake start, for which all except Tech and Wesleyan were set back, Moses obtained second place, behind Wesleyan. Salisbury next took the running and decreased the Wesleyan lead of ten yards, to three yards. White on the next lap passed his opponent after about 120 yards and then gained three yards more. Gram, running the final lap in good form, increased his lead to nearly twenty yeards and finished strong. The average time of the Tech team, 52 4-5 seconds is faster than any of the men have done at the Field this spring.

The showing of Moses was very creditable, as he was in a new position and matched against the fastest of the Wesleyan team. With more training, it seems very probable that Gram will win the intercollegiate quarter-mile.

The first round of the spring tennis tournament will close Thursday, April 29. It is important that every man who has been drawn in the first round should play off before that date, as otherwise the match will be defaulted. The drawings are posted in Rogers corridor.

DR. WALKER DOING VALUABLE WORK

Investigations on Rusting of Tinplate Important to Industry

FLAWS IN BEST OF PLATE

By Ingenious Scheme Dr. Walker Detects Presence of the Slightest Flaw

Some important results are being obtained by Dr. W. H. Walker in some investigations he is carrying on in the Institute laboartories on tin plate as it is now manufactured and placed on the market. He has succeeded in showing one of the principle causes of the deterioration of tin plate and is now endeavoring to find a remedy for the difficulty.

It is well known that long before it wears out, tin plate is destroyed by the rusting of the iron or steel foundation. Dr. Walker has devised a method for detecting the rusting as soon as it starts and has found that minute holes in the plating are responsible for the trouble.

The sample to be tested is carefully washed and then covered with gelatine, containing small amounts of sulphuric acid and potassium ferricyanide. The acid has no action on the tin coating, but wherever the tin is broken it attacks the iron and the ferricyanide turns blue. The blue color is prevented from diffusing by the gelatine and half an hour after the gelatine is applied every imperfection in the tin is clearly indicated by a blue spot.

By this method it has been shown that on even the best quality of tin plate when new the occurrence of pin holes is frequent.

With this easy and accurate method of locating the pin holes or other points on the tinned surface where iron is exposed, it is hoped that something more definite may soon be learned regarding their cause and a remedy devised.

WIRELESS SOCIETY

The announcement, several weeks ago that a wireless society was to be formed at the Institute has caused considerable interest among those interested in wireless telegraphy. A committee was appointed to frame a constitution and arrange minor details before the final organization. This has been done and a meeting will be held in the small reading room of the Union at four o'clock Friday afternoon. All those who desire to become charter members should be present at that time.

The plans of the society have been carefully gone over and discussed with a number of the Faculty of the Institute, two of the Government officials of the Charlestown Navy Yard and several wireless experts in the city. In all cases the plans and ideas of the proposed society were heartily approved and a willingness expressed to co-operate and aid in every possible way.

The meeting Friday will be for the final organization. There will be no dues or assessments from the members this year.

MELROSE BEATS 1912

Contrary to the expectation of many, the Melrose High School defeated the freshmen Monday afternoon by a score of 4 to 0. The game was played at Pine Banks Park, and was very interesting.

There were sensational plays by both teams, Melrose keeping down the score many times by snappy playing. Chessong of Melrose played an especially good game.

GUNCKEL TO TALK ON TOLEDO WORK

His Remarkable Success in Improving the Life of Newsboys

CONVOCATION TODAY

Picturesque and Jolly Character Carries on Only Work of Kind in World

Mr. John E. Gunckel, of Toledo, president of the Newsboys Association of that city, will address the Institute at a convocation, today at 2 P. M.

His work among the boys of Toledo has been unprecedented. He has eliminated among the boys the use of tobacco in any form, or profane language, and the practice of stealing, and with such success that dishonesty among the newsboys of the association is unknown. Over 2,100 active members from this association. Personally neither Mr. Gunckel or any adult comes in touch with any boy to inform him. Every direct reproof or appeal comes from some other boy. The city is divided into 13 divisions with 12 officers each. If any boy is going wrong it is reported to the district officers, and he is dealt with in their own way. It is a common thing for teachers and even parents to report a child to the association.

Aside from the system, Mr. Gunckel's success lies in the fact that he never reproves or critizes. He is a great jollier and has a very picturesque air about him that captivates the boys.

PROF. CROSS ON X RAYS

Special Lecture Was Illustrated by Lantern Slides

"X-rays and radioactivity" was the subject of a special lecture given by Prof. Charles R. Cross yesterday afternoon.

Under the Roentgen rays, Prof. Cross showed a sheet of aluminum to be as transparent as the pane of ordinary glass placed beside it, and a glass cube could be clearly distinguished through the side of an aluminum drinking cup.

X-ray photographs of a purse in which keys and coins could easily be seen, were thrown upon the screen. A pair of gloves in which a diamond ring was concealed placed under the rays showed how custom officials could make practical use of the rays.

Methods for distinguishing genuine diamonds from imitations by the use of the rays were discussed, and transparent photographs of beans, nuts, raisins, and some of the smaller animals such as the bat, turtle, fish, snake and a small aligator were shown. The bones of the animals could easily be seen through the flesh.

Many of the scientific phases of the waves were discussed, and with the aid of a vacum pump Prof. Cross showed the difference of intensity of the rays at different pressures.

BIOLOGICAL MEETING

Dr. Frederick Wood Will Address Last Meeting of the Year

At the dinner in the Technology Club tomorrow evening, the Biological Society will listen to a talk by Dr. Frederick A. Woods on "Biometrical Methods and the Interpretation of History." Dr. Woods, who is a special lecturer in biology at the Institute, has made a study of the dimensions of living organisms with particular reference to their history.

This will be the last meeting of the Society for the season, and members are urged to be present. An enjoyable evening is promised to all. An opportunity will be given to sign the constitution. The charge for the dinner is 60 cents per plate.

BUSINESS SCHEME FOR ACTIVITIES

Plan to Prevent Personal Gain or Loss of Members

AUDITING OF ACCOUNTS

Will Assure Managers of Status and Promote Interest in Student Affairs

In line with the point system and other recent improvements and developments of student activities is the following plan which is intended to effect all the undergraduate activities at the Institute.

Object.

By publicity:

To increase interest in and respect for the activities.

To remove personal gain and reduce the possibility of personal loss.

To prevent neglect of studies.

To insure financial stability.

Plan.

1. Every student activity shall have its accounts kept, preferably by the Institute committee bookkeeper, in such a manner that monthly reports can be made to the Institute Committee.

2. The Institute Committee will prepare these reports for publication in The Tech together with a report of the corresponding month of the previous year for comparison, and will make such comments and recommendations as may seem opportune.

a. Before publication, the matter to be published will be gone over with the head of each activity to permit of possible explanations.

3. The Institute Committee will audit the accounts of the activities twice each year.

4. All amounts remaining over at the end of the school year will be given by the activity making them to some Institute interest.

a. This allows giving of a small amount to the following board of the same with which to start the next year.

First and foremost the scheme tends to prevent all gain or loss by the fellows running the enterprise. At the end of the year, if any money is left over, the activity making it may give it to any other activity it choses, carrying it over itself for the next year if it so decides. Personal loss may be prevented by similar gifts from other activities and by accurate knowledge of how matters stand during the year. This last is effected by putting the drudging of bookkeeping into the hands of a paid experienced man. This allows business managers to give up their time to making money, not keeping track of it.

For a long time the business departments of practically every student activity have been lax, unwieldy and inefficient, not through the calibre of the men, but because of the system. The business manager either becomes so

(Continued on page 2.)

CALENDAR

WEDNESDAY, APRIL 28.

2:00 P. M.—Convocation, Huntington Hall.

4:15 P. M.—C. E. Society, 11 B.

5:15 P. M.—Dining Room Committee Meeting, the Union.

8:00 P. M.—Musical Clubs Concert, East Boston.

THURSDAY, APRIL 29.

1:00 P. M.—1912 Class Meeting, Huntington Hall.

6:30 P. M.—Biological Society Meeting, Technology Club.

4:00 P. M.—Class Day Committee Meeting, Room A, Union.

THE TECH

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All communications regarding advertisements should be addressed to the Business Manager. Regarding subscriptions address the Circulation Manager.

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Printed by Old Colony Press, Boston.

Wednesday, April 28, 1909

The Tech regrets to announce the resignation of Charles Lawton Tuller 1912, from the board of associate editors of The Tech.

In line with its policy to promote harmony among the various activities and avoid conflicting dates, the Institute committee has posted a calendar of events on the bulletin board in the Union. This is a wise move and will no doubt make things run more smoothly in the future. The need for it has been shown repeatedly.

Are you entered for the spring meet? Perhaps it depends on you whether your class will be the first to have its numerals on the new Briggs cup for the class track championship.

If you heven't done enough training, go to the Field today and limber up. Then put your name in the entry book in the Union before Friday.

If you are not going to compete, be sure to go out and root for your class.

The plan presented in today's issue for better co-operation of the various Institute activities seems an admirable one in many respects. Personal gain or loss is practically prevented, thus assuring that the organizations be all-Tech affairs rather than individual business propositions. Further advantage lies in the fact that the plan will tend to encourage system in the activities, and remove the drudgery of clerical work.

The clerical work is put where it should be,—out of the hands of the student and in those of one acquainted with such work. On the other hand, the responsibility, which is the great business teacher, is not removed; it is even emphasized.

The idea is not a radical one. The Tech Show has for some years given its prifits to athletics and has developed systematic business methods which prevent loss. It would seem feasible that the remaining organizations follow the Show's lead by ratifying the proposed plan, thus making possible a continuance of right methods from year to year and commanding rsepect from those outside, as well as inside, the Institute.

The proposition deserves consideration by all affected, and The Tech will welcome communications as to the advisability of its adoption.

COLLEGE NOTES

Illinois is to have a new cinder track. It will be thirty feet in width, and drained with large size tile.

John Sharp Williams, for six years Democratic leader in the House of Representatives, and now senator from Missouri, will deliver the commencement oration at the University of Nebraska.

The toal attendance at the University of Wisconsin this year is 4,521, an increase of 508, or 12 1-2 per cent., over last year's enrollment.

Professor Starr of the University of Chicago says that young men in this country do not know how to throw kisses gracefully.

BUSINESS SCHEME

(Continued from page 1.)

engrossed in the clerical work, neglecting the other more important duties; or they neglect the clerical to take care of the other work. If they do both they give up school work.

With the proposed arrangement, matters will be so handled at the outset that, aided by the Institute Committee bookkeeper, they will never be allowed to overwhelm the business manager.

The way the scheme is designed to work out in practice is this: Every activity will have a ledger pad on wihch every transaction will be jotted down immediately. At a fixed period, every day for the larger activities, these sheets will be signed and given to the bookkeeper who will balance them and enter them in the activity's book according to up to date business methods. At the end of the month the report will be drawn up and given to the Institute Committee. That is all there is for the activities to do. Their work is finished when the reports are handed in.

The Institute Committee now takes these reports and draws up such comments as it thinks necessary. The head of each activity is given the opportunity of going over these comments and giving explanations to the Institute Committee that will prevent the publication of erroneous ideas.

In order to give backbone to the whole idea, auditing must be done periodically. It is not the purpose to put this in the hands of students, but in

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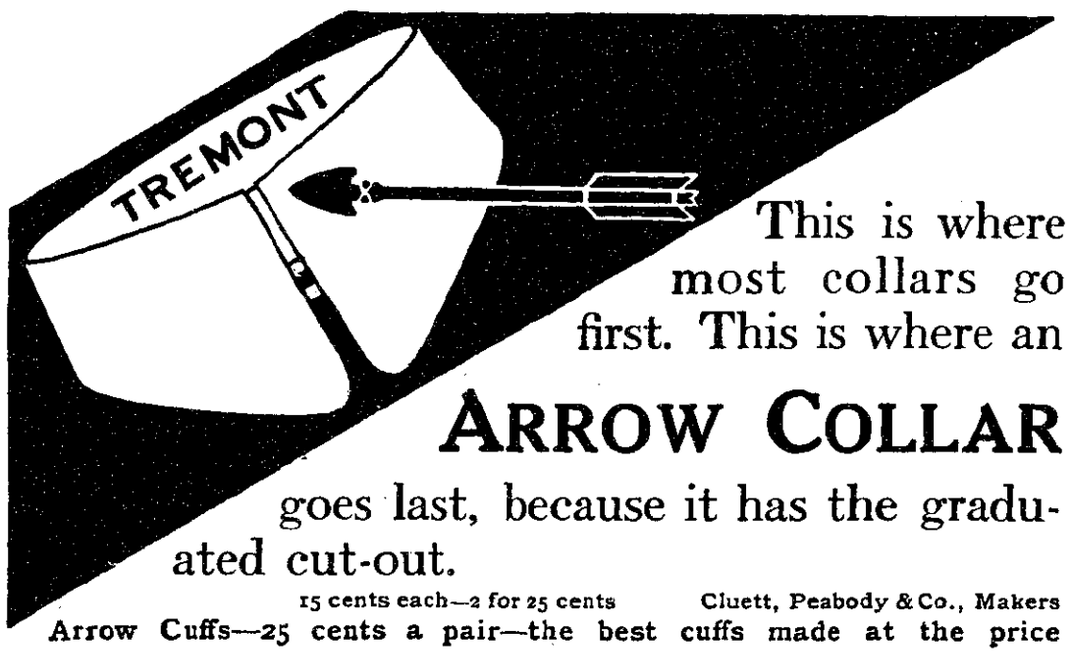

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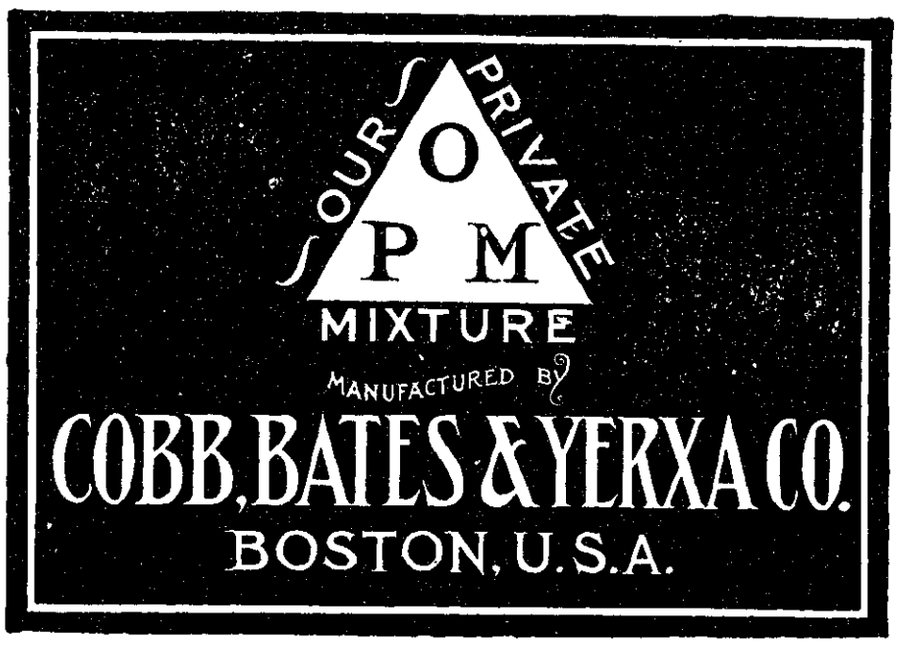

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the hands of some expert, as was done this spring for the Union Dining Room accounts.

The idea is to show everyone connected with activities, by bringing all the accounts to a head periodically, just how that activity stands and how to go ahead for the remainder of the year.

TO CONFIRM ELECTIONS

President Kemp Calls Freshmen Class Meeting Thursday

A freshmen class meeting has been called by President Kemp for Thursday at one o'clock in Huntington Hall. This is to be an important meeting and a large amount of class business is scheduled. The following results of elections by the executive committee will be submitted to the class for confirmation. J. C. Duyser, manager of tug-of-war; M. C. Cherry, manager of base ball team; J. E. Whitlesey, manager of foot ball team; and C. H. Albee, manager of basket ball team.

The resignation of M. C. Cherry as base ball manager will be presented, and if accepted a new man will be elected by vote of the class. The officers request that all 1912 men give attention to the above business and attend the meeting on Thursday.

CLASS DAY COMMITTEE

At the meeting of Class Day Committee yesterday, W. C. Ferguson was elected secretary and L. C. Shaw treasurer. The resignation of C. W. Hubbard was accepted.

R. Ellis, G. A. Joslin and S. N. McCain were appointed to nominate the Class Day Orator, Prophet and other dignitaries.

Various subcommittees were elected and the following program decided upon:

Musical Clubs Concert, Saturday, June 5.

Innauguration Monday morning.

Senior Dance Monday evening.

Class Day Monday afternoon.

Graduation Tuesday evening.

Dinner Thursday.

NOTICES

NOTICE—Saturday, May 1, Show Dinner at the Union.

CATHOLIC CLUB—Banquet postponed to Saturday, May 8. A28

1910—All men who attend Prom, whether they signed up or not, who have not paid, kindly see some member of the committee and settle up at once.

Class 1910—Second term assessment of fifty cents is due from all members of the class on or before May 8. Collectors are:

Course I. P. D. Terry, W. R. Waldo.

Course II. J. C. Tuttle, R. A. D. Preston.

Course III. R. S. Breyer, V. C. Warren.

Course IV. H. S. Clevendon.

Course V and X. R. S. Bicknell.

Course XI. L. T. Hemmenway, H. S. Gott, E. M. Potter.

Course VII and XI. H. D. Billings.

Course VIII. E. C. Tolman.

Course XIII. R. M. Torry.

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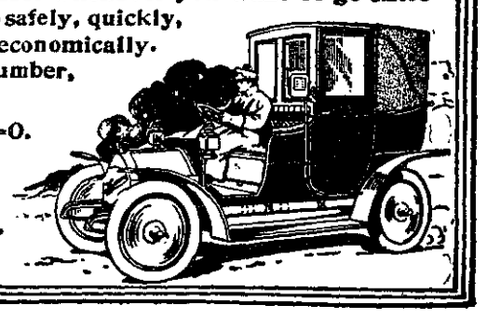
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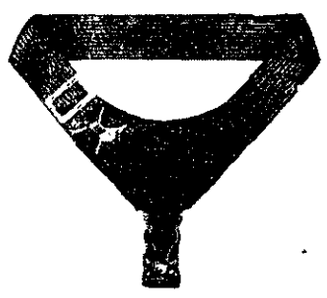

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NOTICES

CIVIL ENGINEERING SOCIETY.—Meeting in 11 B at 4:15 P. M. today. Illustrated talk on "Waterproofing" by Frederick S. Green. Architects invited.

The Union House Com. requests that drawing boards, books, etc., which have been left at the Cage for a long time, be called for as soon as possible by those holding checks for same.

Scarcity of storage room at the Cage makes it necessary that these articles be removed.

FACULTY NOTICE

There will be a General Convocation on Wednesday, April 28th, at 2 P. M. Mr. John E. Gunckel of Toledo, President of the Newsboys Association of America, and one of our most successful workers for social betterment in boys will speak.

Two o'clock exercises will be postponed until 2:30 P. M. A26

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

LOST—Moore's fountain pen. Reward for its return to Pearl, 30 Eng. C.

TECH penants, banners and pillows. Leave note at Cage for E. Q. Adams. M7

TUTORING.—Those wishing to join a class in 3rd year, 1st term Applied Mechanics, leave note at Cage for C. D. M. 1910. A28

MOTOR CYCLE.—If you are going to buy a new one, address Box 602, Prov., R. I., for an interesting proposition. A10

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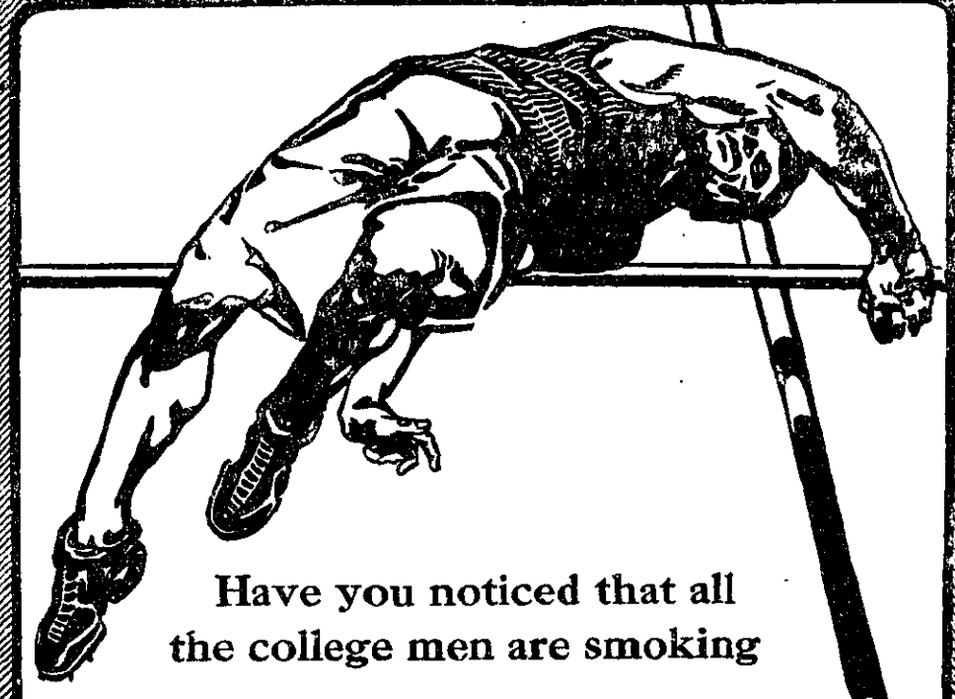

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